



OIPF

## RAW SEQUENCE LISTING

DATE: 03/20/2002

PATENT APPLICATION: US/10/090,427

TIME: 11:39:29

Input Set : A:\LEX-0313-USA SEQLIST.txt

Output Set: N:\CRF3\03202002\J090427.raw

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4 <110> APPLICANT: Friddle, Carl Johan
5       Hilbun, Erin
6       Wilganowski, Nathaniel L.
8 <120> TITLE OF INVENTION: Novel Human Semaphorin and Polynucleotides Encoding the Same
10 <130> FILE REFERENCE: LEX-0313-USA
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/090,427
C--> 12 <141> CURRENT FILING DATE: 2002-02-28
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13 <151> PRIOR FILING DATE: 2001-03-12
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22 <213> ORGANISM: homo sapiens
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30 agacaacagg atcgagaaaa ctgtgctatg aaaggcaagc ataaagatga atgccacaac 360
31 tttatcaaaag tatttgttcc aagaaacgat gagatggttt ttgtttgtgg taccaatgca 420
32 ttcaatccca tgtgtagata ctacagggtg agtaccttag aatatgatgg ggaagaaatt 480
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38 aacgacatgg gtggttccca gcgggtcctg gagaaacact ggacttcatt tctaaaggct 840
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51 tgtaaaaagt cttgtattgc atctcgtgac ccgtattgtg gctggttaag ccagggatcc 1620

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52 tgtggttagag tgaccccagg gatgcttget gaaggatatg aacaagacac agaattcggc 1680
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54 aaaatatttg gcggtccaac atctgacatg gaggtatctt catcttctgt taccacaatg 1800
55 gcaagtatcc cagaaatcac acctaaagtq attgatacct ggagacctaa actgacaagc 1860
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57 ggtatcccaa aggtgtgacg atgggaagtc cagtctggag agtccaacca gatggtccac 1980
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77 ggactaaaaga ggacgcgctc cttaaaacct gacgtgccac caaagccttc ctttgttct 3180
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80 &lt;210&gt; SEQ ID NO: 2

81 &lt;211&gt; LENGTH: 1073

82 &lt;212&gt; TYPE: PRT

83 &lt;213&gt; ORGANISM: homo sapiens

85 &lt;400&gt; SEQUENCE: 2

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87 1 5 10 15
88 Gln Leu Arg Ala Val Ser Phe Pro Glu Asp Asp Glu Pro Leu Asn Thr
89 20 25 30
90 Val Asp Tyr His Tyr Ser Arg Gln Tyr Pro Val Phe Arg Gly Arg Pro
91 35 40 45
92 Ser Gly Asn Glu Ser Gln His Arg Leu Asp Phe Gln Leu Met Leu Lys
93 50 55 60
94 Ile Arg Asp Thr Leu Tyr Ile Ala Gly Arg Asp Gln Val Tyr Thr Val
95 65 70 75 80
96 Asn Leu Asn Glu Met Pro Lys Thr Glu Val Ile Pro Asn Lys Lys Leu
97 85 90 95
98 Thr Trp Arg Ser Arg Gln Gln Asp Arg Glu Asn Cys Ala Met Lys Gly
99 100 105 110
100 Lys His Lys Asp Glu Cys His Asn Phe Ile Lys Val Phe Val Pro Arg
101 115 120 125
102 Asn Asp Glu Met Val Phe Val Cys Gly Thr Asn Ala Phe Asn Pro Met

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103      130      135      140
104 Cys Arg Tyr Tyr Arg Leu Ser Thr Leu Glu Tyr Asp Gly Glu Glu Ile
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106 Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg Gln Thr Asn Val Ala
107      165      170      175
108 Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr Val Ala Asp Phe Leu
109      180      185      190
110 Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly Asp Gly Ser Ala Leu
111      195      200      205
112 Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys Glu Pro His Phe Leu
113      210      215      220
114 His Ala Ile Glu Tyr Gly Asn Tyr Val Tyr Phe Phe Arg Glu Ile
115 225      230      235      240
116 Ala Val Glu His Asn Asn Leu Gly Lys Ala Val Tyr Ser Arg Val Ala
117      245      250      255
118 Arg Ile Cys Lys Asn Asp Met Gly Gly Ser Gln Arg Val Leu Glu Lys
119      260      265      270
120 His Trp Thr Ser Phe Leu Lys Ala Arg Leu Asn Cys Ser Val Pro Gly
121      275      280      285
122 Asp Ser Phe Phe Tyr Phe Asp Val Leu Gln Ser Ile Thr Asp Ile Ile
123      290      295      300
124 Gln Ile Asn Gly Ile Pro Thr Val Val Gly Val Phe Thr Thr Gln Leu
125 305      310      315      320
126 Asn Ser Ile Pro Gly Ser Ala Val Cys Ala Phe Ser Met Asp Asp Ile
127      325      330      335
128 Glu Lys Val Phe Lys Gly Arg Phe Lys Glu Gln Lys Thr Pro Asp Ser
129      340      345      350
130 Val Trp Thr Ala Val Pro Glu Asp Lys Val Pro Lys Pro Arg Pro Gly
131      355      360      365
132 Cys Cys Ala Lys His Gly Leu Ala Glu Ala Tyr Lys Thr Ser Ile Asp
133      370      375      380
134 Phe Pro Asp Glu Thr Leu Ser Phe Ile Lys Ser His Pro Leu Met Asp
135 385      390      395      400
136 Ser Ala Val Pro Pro Ile Ala Asp Glu Pro Trp Phe Thr Lys Thr Arg
137      405      410      415
138 Val Arg Tyr Arg Leu Thr Ala Ile Ser Val Asp His Ser Ala Gly Pro
139      420      425      430
140 Tyr Gln Asn Tyr Thr Val Ile Phe Val Gly Ser Glu Ala Gly Met Val
141      435      440      445
142 Leu Lys Val Leu Ala Lys Thr Ser Pro Phe Ser Leu Asn Asp Ser Val
143      450      455      460
144 Leu Leu Glu Glu Ile Glu Ala Tyr Asn His Ala Lys Cys Ser Ala Glu
145 465      470      475      480
146 Asn Glu Glu Asp Lys Lys Val Ile Ser Leu Gln Leu Asp Lys Asp His
147      485      490      495
148 His Ala Leu Tyr Val Ala Phe Ser Ser Cys Ile Ile Arg Ile Pro Leu
149      500      505      510
150 Ser Arg Cys Glu Arg Tyr Gly Ser Cys Lys Lys Ser Cys Ile Ala Ser
151      515      520      525

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154 Thr Pro Gly Met Leu Ala Glu Gly Tyr Glu Gln Asp Thr Glu Phe Gly
155 545      550      555      560
156 Asn Thr Ala His Leu Gly Asp Cys His Glu Ile Leu Pro Thr Ser Thr
157      565      570      575
158 Thr Pro Asp Tyr Lys Ile Phe Gly Gly Pro Thr Ser Asp Met Glu Val
159      580      585      590
160 Ser Ser Ser Ser Val Thr Thr Met Ala Ser Ile Pro Glu Ile Thr Pro
161      595      600      605
162 Lys Val Ile Asp Thr Trp Arg Pro Lys Leu Thr Ser Ser Arg Lys Phe
163      610      615      620
164 Val Val Gln Asp Asp Pro Asn Thr Ser Asp Phe Thr Asp Pro Leu Ser
165 625      630      635      640
166 Gly Ile Pro Lys Gly Val Arg Trp Glu Val Gln Ser Gly Glu Ser Asn
167      645      650      655
168 Gln Met Val His Met Asn Val Leu Ile Thr Cys Val Phe Ala Ala Phe
169      660      665      670
170 Val Leu Gly Ala Phe Ile Ala Gly Val Ala Val Tyr Cys Tyr Arg Asp
171      675      680      685
172 Met Phe Val Arg Lys Asn Arg Lys Ile His Lys Asp Ala Glu Ser Ala
173      690      695      700
174 Gln Ser Cys Thr Asp Ser Ser Gly Ser Phe Ala Lys Leu Asn Gly Leu
175 705      710      715      720
176 Phe Asp Ser Pro Val Lys Glu Tyr Gln Gln Asn Ile Asp Ser Pro Lys
177      725      730      735
178 Leu Tyr Ser Asn Leu Leu Thr Ser Arg Lys Glu Leu Pro Pro Asn Gly
179      740      745      750
180 Asp Thr Lys Ser Met Val Met Asp His Arg Gly Gln Pro Pro Glu Leu
181      755      760      765
182 Ala Ala Leu Pro Thr Pro Glu Ser Thr Pro Val Leu His Gln Lys Thr
183      770      775      780
184 Leu Gln Ala Met Lys Ser His Ser Glu Lys Ala His Gly His Gly Ala
185 785      790      795      800
186 Ser Arg Lys Glu Thr Pro Gln Phe Phe Pro Ser Ser Pro Pro His
187      805      810      815
188 Ser Pro Leu Ser His Gly His Ile Pro Ser Ala Ile Val Leu Pro Asn
189      820      825      830
190 Ala Thr His Asp Tyr Asn Thr Ser Phe Ser Asn Ser Asn Ala His Lys
191      835      840      845
192 Ala Glu Lys Lys Leu Gln Asn Ile Asp His Pro Leu Thr Lys Ser Ser
193      850      855      860
194 Ser Lys Arg Asp His Arg Arg Ser Val Asp Ser Arg Asn Thr Leu Asn
195 865      870      875      880
196 Asp Leu Leu Lys His Leu Asn Asp Pro Asn Ser Asn Pro Lys Ala Ile
197      885      890      895
198 Met Gly Asp Ile Gln Met Ala His Gln Asn Leu Met Leu Asp Pro Met
199      900      905      910
200 Gly Ser Met Ser Glu Val Pro Pro Lys Val Pro Asn Arg Glu Ala Ser

```

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201          915          920          925
202 Leu Tyr Ser Pro Pro Ser Thr Leu Pro Arg Asn Ser Pro Thr Lys Arg
203          930          935          940
204 Val Asp Val Pro Thr Thr Pro Gly Val Pro Met Thr Ser Leu Glu Arg
205 945          950          955          960
206 Gln Arg Gly Tyr His Lys Asn Ser Ser Gln Arg His Ser Ile Ser Ala
207          965          970          975
208 Met Pro Lys Asn Leu Asn Ser Pro Asn Gly Val Leu Leu Ser Arg Gln
209          980          985          990
210 Pro Ser Met Asn Arg Gly Gly Tyr Met Pro Thr Pro Thr Gly Ala Lys
211          995          1000          1005
212 Val Asp Tyr Ile Gln Gly Thr Pro Val Ser Val His Leu Gln Pro Ser
213          1010          1015          1020
214 Leu Ser Arg Gln Ser Ser Tyr Thr Ser Asn Gly Thr Leu Pro Arg Thr
215 1025          1030          1035          1040
216 Gly Leu Lys Arg Thr Pro Ser Leu Lys Pro Asp Val Pro Pro Lys Pro
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225 <211> LENGTH: 2997
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241 ccacactttc ttcattgccat agaatatgga aactatgtct atttcttctt tcgagaaatc 720
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243 aacgacatgg gtggttccca gcgggtcctg gagaaacact ggacttcatt tctaaaggct 840
244 cggctgaact gttctgtccc tggagattcg ttttctact ttgatgttct gcagtctatt 900
245 acagacataa tacaaatcaa tggcatcccc actgtggtcg ggggtgtttac cagcgagctc 960
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247 aaaggacggt ttaaggaaca gaaaactcca gattctgttt ggacagcagt tcccgaagac 1080
248 aaagtgccaa agccaaggcc tggctgttgt gcaaaacacg gccttgccga agcttataaa 1140
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252 gttggctctg aagctggcat ggtacttaaa gttctggcaa agaccagtc tttctctttg 1380
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VERIFICATION SUMMARY

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Output Set: N:\CRF3\03202002\J090427.raw

L:12 M:270 C: Current Application Number differs. Replaced Current Application No

L:12 M:271 C: Current Filing Date differs. Replaced Current Filing Date